REMARKS/ARGUMENTS

Applicants have amended the specification in compliance with the requirements of the Office Action to comply with the sequence rules. In this regard the official action urges that the application is not in compliance with the sequence rules in that the sequences recited in the specification, in figure 7 and on pages 10-13, must be identified by sequence identification numbers.

The Official Action also states that a substitute raw sequence listing (paper copy) and a computer readable form of the same and/or amendments to the specification are required to comply with the sequence rules.

Applicants have amended the specification and drawings to include the required sequence identification numbers in figure 7 and on pages 10-13.

In addition Applicants have amended the Sequence Listing as required by the Examiner in the Official Action. SEQ ID NOS: 1 to 5 of the new sequence listing correspond to SEQ ID NOS: 1 to 5 of the original sequence listing. New SEQ ID NOS: 6 and 7 show the sequences of the *E. coli* and *H. influenzae* thyA gene products set out in Figure 7 respectively, (the *V. cholerae* sequence shown in Figure 7 is of course, set out in SEQ ID NO:4); and new SEQ ID NOS: 8 to 15 set out the sequences of the PCR primers shown at pages 10 to 13. Accordingly,

The below signed attorney hereby states that the substitute sheets of the sequence listing submitted herewith includes no new matter and is supported by the originally filed application. The below signed attorney also hereby states that the computer readable form

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of the sequence listing submitted herewith is the same as the substitute paper copy of the sequence listing submitted herewith.

Lastly, in accordance with the request on page 2 of the official action, applicant submits herewith a copy of the "Notice to Comply".

In view of the above comments and further amendments to the specification, favorable reconsideration and allowance of all of the claims now present in the application are most respectfully requested.

Respectfully submitted,

Joseph DeBenedictis Registration No. 28,502

BACON & THOMAS, PLLC

Date: October 24, 2003

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ANNOTATED SHEET SHOWING CHANGES

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FIG. 7

E.	coli :	MKQYLELMQKVLDEGT-QKNDRTGTGTLSIFGHQMRFNL-QDGFPLVTTKRCHLRSIIHE : : : ::::::::::::::::::::::::::::
		VKQYLDLCQRIVDQGVWVENERTGKRCLTVINADLTYDVGNNQFPLVTTRKSFWKAAVAE
н.	influenza:	MKQYLELCRRIVSEGEWVANERTGKHCLTVINADLEYDVANNQFPLITTRKSYWKAAIAE
E.	coli :	LLWFLQGDTNIAYHENNVTIWDEWADENGDLGPVYGKQWRAWPTPDG
	cholerae :	LLGYIRGYDNAADFRQLGTKTWDANANLNQAWLNNPYRKGEDDMGRVYGVQGRAWAKPDG
н.	influenza:	FLGYIRGYDNAADFRALGTKTWDANANENAAWLANPHRRGVDDMGRVYGVQGRAWRKPNG
		RHIDQITTVLNQLKNDPDSRRIIVSAWNVGELDKMALAPCHAFFQFYVADGKLSCQLYQR
v.	cholerae :	GHIDOLKKIVDDLSRGVDDRGEILNFYNPGEFHMGCLRPCMYSHHFSLLGDTLYLNSTOR
н.	influenza:	ETIDQLRKIVNNLTKGIDDRGEILTFFNPGEFDLGCLRPCMHTHTFSLVGDTLHLTSYQR
E.	coli :	SCDVFLGLPFNIASYALLVHMMAQQCDLEVGDFVWTGGDTHLYSNHMD-QTHLQLSREPR
v.	cholerae :	
E.	coli :	PLPKLIIKRKPESIFDYRFEDFEIEGYDPHPGIKAPVAI (SEQ ID NO:6)
v.	cholerae :	PAPOFHINPKIKTLODLETWYTLDDFDVTGYQFHDPIQYPFSV (SEQ ID NO:4)
н.	influenza:	:::
		lack
	· .	
		Sequence identification numbers 6, 4 and 7 added
		hanc 6 4 and 7 added
		num bers of